

MSG 088 - RED FD07 MISSION SUMMARY

Good morning Red. Enjoy a well-deserved morning off! You'll notice there is no WSA IFM on your plan today. Thanks to Blue's help, we have made great strides in balancing the heat loads on the SHAB water loop. While you may still see the WSA IFM at a later date, we are hoping that we won't have to sacrifice the required 3 hours of your science timeline.

We have a low priority request for digital still photographs of the SHAB RDM through the aft windows. If you get a chance, just snap some pictures and send them down.

From the LSP science and engineering teams: The test results obtained through your efforts are a valuable contribution to the LSP investigation. We enjoyed working with you and very much appreciate your efforts to make our investigation a success. Best wishes for the rest of the STS-107 mission.

The heavens are providing quite a show. MEIDEX confirms the capture of 4 Sprites images and 2 ELVES during the Orbit 87 observation and 2 very unexpected but welcome images of meteorites entering the atmosphere. The MEIDEX team says the meteorite images will be very important to astronomical researchers but they are going to make them beg before they let the images go. Thanks for all they great work and keep it up!

YOUR CURRENT ORBIT IS: 154 X 143 NM

NOTAMS:

EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER
WHITE SANDS (NOR) – GREEN
KING KHALID (KKI) – 15L/33R CLOSED
NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT
BEN GUERIR (BEN) – NOT RECOMMENDED
BANJUL (BYD) – NOT RECOMMENDED
MONROVIA (LRB) - NOT RECOMMENDED
TAMANRASSETT (ATT) - NOT RECOMMENDED
SOUDA (GSA) – NOT SUPPORTING
DYESS (DYS) – NOT USABLE

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB	98	06/02:29
EDW04 ORB	114	07/02:29

OMS TANK FAIL CAPABILITY:

L OMS FAILS:	YES (SHALLOW TARGETS)
R OMS FAILS:	YES (SHALLOW TARGETS)

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LEAKING OMS PRPLT BURN:

L OMS LEAK: BURN OUT-OF-PLANE AN + 0 <= TIG <= AN + 48

R OMS LEAK: BURN OUT-OF-PLANE AN + 7 <= TIG <= AN + 43

OMS QUANTITIES(%)

L OMS OX = 34.1 R OMS OX = 34.2

FU = 33.8 FU = 33.8

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS	305 FPS
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ARCS (TOTAL ABOVE QTY1)	31 FPS
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TOTAL IN THE AFT	336 FPS
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ARCS (TOTAL ABOVE QTY2)	60 FPS
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FRCS (ABOVE QTY 1)	40 FPS
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AFT QTY 1	87 %
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AFT QTY 2	49 %
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There are no Failure/Impact/Workarounds today.